KBVISION

KX-FW2504ZR3

Multilane Radar Detector

- One single radar covers up to 32 vehicles of 1–4 lanes.
 Precisely detects speed and position of vehicles when they are 18 m–35 m (59.1 ft–
- 114.8 ft) away.
- · Flexible to install: Either installed over the lane or at the side of a lane.
- \cdot Special functions such as detection of illegal lane change and wrong-way driving.
- \cdot The detection performance is not impaired by adjacent lane or vehicles in front of or behind the target vehicle.



Performance

Performance	
Lane Coverage	1–4 lane(s) (3.75 m (12.30 ft) standard lane)
Speed Measurement Range	5 km/h–350 km/h
Speed Measurement Accuracy	Simulated Speed Measurement Error Range: ±2 km/h On-site Speed Measurement Error Range: Vehicle speed < 100 km/h: ±2 km/h Vehicle speed ≥ 100km/h: ±2%
Detection Target	Up to 32 vehicles
Maximum Detection Distance	100 m (328.08 ft)
Minimum Detection Distance	2 m (6.56 ft)
Installation Height	5 m–10 m (16.40 ft–32.80 ft)
Position Detection Accuracy	< ±2.5% or < ±0.5 m (1.64 ft)
Overspeed Capture Rate	\ge 95% (when traffic is smooth)
Lane Recognition Rate	≥ 95%
Frequency	24.150 GHz ± 45 MHz
Response Time	≤ 50 ms
Transmit Power (EIRP)	20 dBm (100 mW)
Modulation	FMCW + Monopulse + Doppler, 3 transceiving antennas
Bandwidth	250 MHz
Protection Grade	IP67
Radar Beam Angle	Horizontal: –6° to +6° (–3 dB) Vertical: –5° to +5° (– 3 dB)
General	
Operating Voltage	12V DC
Average Power Consumption	< 3.5 W
Operating Temperature	-40 °C to +85 °C (–40 °F to +185 °F)

Relative Humidity	10%RH–90%RH, no condensation
Dimensions	155 mm × 130 mm × 54.9 mm (6.10'' × 5.12'' × 2.16'') (L × W × H)
Weight	1 kg (2.20 lb)

Dimensions (mm[inch])





